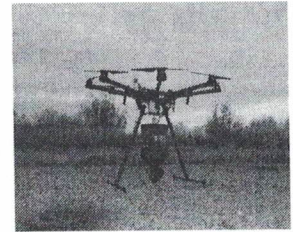


**Chiloquin Vector Control District
 of Klamath County Oregon**
**Mosquito complaints logs, light trap logs, do not
 treat list, Insect species log, historical records, and
 mosquito treatment statistics for the 2023
 mosquito season**



CVCD Calls for Service Locations

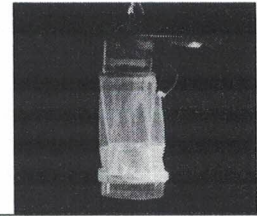
06/01/03	41524 Royal Coachman Dr	Debby Jones	541 591 2588	1
06/01/03	39727 W Hwy 62	Heidi Gilmore	408 807 2116	Service Info
06/06/23	41524 Royal Coachman Drive	Steve & Debby Jones	541 591 2588	1
06/06/23	1141 Tecumseh Way			1
06/06/03	40162 Braymill Drive	Vickey Concrite	542 783 2582	1
06/13. 23	33433 Metate Lane	Mary Buker	503 508 4525	1
06/13/23	728 Friendship	Keith Johnson	951 7419613	1
06/13/23	39220 Hwy 62	Joyce Ramos	541 783 2535	1
06/18/23	40103 Lobart Way	Mike Brown	928 299 0248	1
06/29/23	39020 Modoc Point Road	Barbara Templeton	541 783 7760	1
07/01/23	905 Pine Needle Dive	Rick Ming	661 444 3054	1
07/06/23	35200 Modoc Point Road	OS#2 Erin Wampler	541 783 2033	3
07/06/23	1028 Burr Ave	Britt & Christy Grannis	209 351 0488	1
07/17/23	39441 Modoc Point Road	Sarah Berger	541 622 9676	1
	# OF COMPLAINTANTS 2023			14
	Total Complaints 2022			5
	Total Complaints 2021			1
	Total Complaints 2020			2
	Total Complaints 2019			11
	Total Complaints 2018			5
	Total Complaints 2017			15
	Total Complaints 2016			9
	Total complaints 2015			11
	Total complaints 2014			19
	Total complaints 2013			24

Average number of yearly mosquito complaints = 10.46 per year

Note: Covid 19 Virus effected 2020, 2021 results due to
 social & economic shutdown in the district.

Standard CDC Standard Light Trap Deployment log

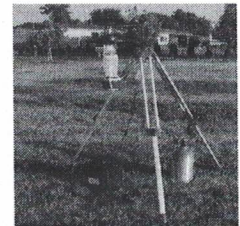
Replacement value \$600.00 per trap. Trap capable of 16 hours of operation. Traps used to verify mosquito complaints and verify that contract specifications are being complied with by the CVCD Mosquito control Contractor, Edward Horvath ,of Three Rivers Mosquito and Vector Control – a public health licensed private company.



Date	Location of the light traps	Findings
07/05 to 06 /23 Mosquito Count "0" per hour	36924 Agency Lake Loop Road Overnight equipment testing	Mosquitoes ----- 2 Buzzer midges ----- 280 Midges green ----- 300+
7/10 to 15 th , 22	35200 Modoc Point Road 17+ acre camp ground	See results below – used with CO2 trap*
7/18 -22 /22 40 trap operational hours over 4 nights. Mosquito Count per hour: 0.3 per hour	39441 Modoc Point Road Located near NO Spray Resident. Fogging is close call. Has natural spring /pond on East end of property.	Mosquitos----- 11 No See ums ----- 100+ Buzzer Midges ----- 205 Stable fly ----- 4 Others ----- 171+

CDC APPROVED CO2 & ULV LIGHT TRAP DEPLOYMENT LOG

Equipment purchased by the CVCD for deployment on properties that cannot be legally treated with ULV fogging. Cost for overnight treatment estimated at \$4.25 for CO2 gas. Replacement value CO2 trap; \$1600 per trap. CO2 light Trap specifications: one 10-pound CO2 cylinder; empty weight 16.1 pounds, filled weight about 26.1 pounds. Regulator set to +-10 PSI. Battery has a 32 AMP Hour sealed lead acid battery. Unit equipped with a 12-volt to 6 volts DC regulator for four day run time. The UV light trap can be deployed in conjunction with other traps. It utilizes a 12-volt DC 32 Amp Hour battery with a 12 volt to 6-volt DC converter. Replacement value \$1400 per trap. Run time- four days.



June 12 to 16, 2023 40 operational hours Average mosquito count per hour equals 3	35200 Modoc Point Road, Camp ground area center of the park. One CO2 light trap. The numbers of Mosquitoes decreased each day the trap was deployed.	Mosquitos ----- 113 No-See-Ums ----- 150 Buzzer Midges ----- 38 Klamath Midges Green----- 232 Red Wasp ----- 3 ** Others ----- 9
June 26 to 27, 2023 10 operational hours Average mosquito count per hour – 1.3 per hour.	36924 Agency Lake Loop Road One CO2 light trap Equipment testing C02 system Chairmans front yard area	Mosquitos ----- 13 No See ums ----- 55 Buzzer midges ----- 9 Klamath Midges – Green ----- 100+ Others ----- 12+
July 1 to 5, 2023 40 operational hours Average mosquito count; "0" per hour	905 Pine Needle Drive One CO2 light trap. Emergency request – wife allergic to insect bites.	Mosquitos ----- 0 No See Ums ----- 35 Buzzer Midges ----- 48 Klamath Midges – green ---- 0 Others ----- 6
July 10 to 15, 2023 40 operational hrs. 2 traps.	*35200 Modoc Point Road, park camping area. One Co2 trap &	Mosquitos ----- 174 No-See-Ums ----- 538 Buzzer Midges ----- 359

Average Mosquito Count per hour over four days: 2.2 per hour.	one Regular CDC Light trap. Deployed. CO2 trap captures more than 1.5 X insects over standard light trap. 17-acre campground.	Klamath Midges Green----- 405 Red Wasp ----- 0 Others ----- 196
July 16, 2023 Average hourly mosquito count in the traps: "0"	36924 Agency Lake Look Road Chairmans residence <u>Testing of new UV light trap.</u> Power consumption about same as CO2 trap. Trap has 12-volts to 6-volt converter in the battery box.	Mosquitos ----- 0 No-See-Ums ----- 400+ Buzzer Midges ----- 300 + Klamath Midges Green----- 5000+ Red Wasp ----- 0 Others ----- 100+ Trap was 1/3 full largest catch ever!
July 18 to 22, 2023 40 operational hours. Average hourly mosquito count in the traps: 2 per hour	35200 Modoc Point Rd OS2 park Camping area. First use of UV light trap in public area. Used with CO2 trap. 40 trap operation hours over 4 nights dived by two traps.	Mosquitos ----- 82 Buzzer Midges ----- 870+ Klamath Midges Green----- 200+ Red Wasp ----- 1 Others ----- 668+

** Wasp listed as dangerous to humans, nasty long-lasting sting.

As of the 2023 mosquito season, CVCD light traps of all types are left in place for four days rather than one day due to recommendations from established professionals

Trapping results from 2013 to present.

2023 Mosquito count per hour in all light traps	Not calculated until end of September.
2022 Mosquito count per hour in all light traps	<u>Less than 0.25 mosquitoes an hour.</u>
2020 & 2021 Mosquito count per hour in all light traps	<u>Not measured - Covid 19 issues.</u>
2019 Mosquito count per hour in all light traps	1.10 mosquitoes per hour.
2018 Mosquito count per hour in all light traps	0.84 mosquitoes per hour.
2017 Mosquito count per hour in all light traps	0.73 mosquitoes per hour.
2016 Mosquito count per hour in all light traps	0.50 mosquitoes per hour.
2015 Mosquito count per hour in all light traps	0.93 mosquitoes per hour.
2014 Mosquito count per hour in all light traps	1.12 mosquitoes per hour.
2013 Mosquito count per hour in all light traps	2.69 mosquitoes per hour.

The DEQ, EPA, & DOA require a minimum of five (5) mosquitoes per hour in trap or landings on humans before fogging treatments may legally be applied.

Species of insects most frequently found in CVCD Traps

Barn (horse) fly's, Black dancers, Buzzer Midge, Great Western Crane Fly, assorted variety of Midges, Common Pug, Indianmeal Moth, Inland floodwater Mosquito (Aedes vexans), No-See-Ums(Ceratopogonidae), Rustic Moths, Red Wasp, Oecetis Ochracea Moth, & the Yellow Fever Mosquito(Aedes Aegypti)

DO NOT TREAT OR FOG FOR MOSQUITO LIST

PERSONS WITH ALLERGIES, BEE KEEPERS, & ENVIRONMENTALIST

Letter sent July 5, 2023 to verify status of requestors to remain on the no treatment list.

Jeanette Curtis	40819 Royal Coachman Drive	541 783 2608	Remains on list
Taylor Day & Family	38330 Modoc Point Road	541 892 1503	X
Selk Family	39727 Hwy 62	Unknown	X
Jean & Gill Thompson	38530 Skywalker Lane	541 783 2041	X
Joan Rowe	39560 Modoc Point Rd	541 905 6495	X
Hugh Mull	38220 Modoc Point Rd	541 891 5791	X
Patricia Wyden	35861 S Chiloquin Rd	208 369 0347	X
Cheryl Hensley	40134 Pine Ridge Rd	541 892 4834	X
Kintliger Family	2961 Mark Court	541 783 2961	X
Kintliger Family	34410 Juniper Wood Place	541 783 2961	X
Rick Ming	905 Pine Needle drive	661 444 3054	Rescinded

District's Historical facts.

District was formed by the citizens of Chiloquin in 1969 due to complaints of mosquito infestation. District has approximately 69 square miles or 364,320 acres with a population of less than 3400 citizens. District operations have an economic effect on more than 500,000 visitors to local area attractions.

The CVCD has the smallest mosquito control budget in the State of Oregon and one of the lowest vector district operations budgets in America at \$58,350 for FY 2023 – 2024. The average annual mosquito control budget in the United States exceeds 1.5 million dollars per year for similar size areas.

The CVCD mosquito control budget for treating an acre of land equals approximately \$6.46 per acre. The average cost of treating an acre of land for mosquitos runs between \$250 and \$350 dollars per in acre in 2023.

Incidents of reported mosquito borne diseases in the CVCD equals "0" for 10 years. No other mosquito control district in the State of Oregon has been as successful as the CVCD in controlling mosquito populations and spread of mosquito borne diseases. No other vector district in Oregon has achieved this level of operational/cost efficiency.

Dennis N. Jefcoat
Chairman of the Board of Trustees of the
Chiloquin Vector Control District

Office 541 274 0132. Email: cvcdistrict@gmail.com. www.chiloquinmosquito.org



651 Market Street
Klamath Falls, OR 97601-6252
(541) 238-2272
www.trmvc.com

Larval Mosquito Surveillance and Control Program Results

For: Chiloquin Vector Control District
Date: June 1 - 30 2023

Monthly Results for the Entire District:

Investigation and Treatment Results

Ground Site Investigations:	113
Sites Wet:	33
% of Wet Sites:	29.20%
Landing Rates:	14
Ground Sites Treated:	16
% of Treated Sites:	0.14
Acres Treated:	13.58
Acres Fogged:	624.94
Point Sites:	1
Aerial Photo Flights:	0
Aerial Larvicide Flights:	0
Aerial Acres Treated:	0.00
Mosquito Fish Introduced:	0

Mosquito Control Service Request Results:

Notification and No Spray Requests:	0
Potential Habitat:	0
Adult Mosquito Complaints:	20
General Information:	0
Total Number of Calls/Email:	<u>20</u>

*Report numbers are based upon preliminary data and may be subject to change after final seasonal compilation.

Monthly Results by Areas Within the District:

City of Chiloquin

Ground Site Investigations:	16	Ground Sites Treated:	7	Aerial Photo Flights:	0
Sites Wet:	3	% of Treated Sites:	44%	Aerial Larvcide Flights:	0
% of Wet Sites:	19%	Acres Treated:	0.20	Aerial Acres Treated:	0
Landing Rates:	3	Acres Fogged:	624.94		
		Point Sites:	0	Fish Stocked (lbs)	0

CVCD Zone 1

Ground Site Investigations:	5	Ground Sites Treated:	0	Aerial Photo Flights:	0
Sites Wet:	0	% of Treated Sites:	0%	Aerial Larvcide Flights:	0
% of Wet Sites:	0%	Acres Treated:	0	Aerial Acres Treated:	0
Landing Rates:	5	Acres Fogged:	0		
		Point Sites:	0	Fish Stocked (lbs)	0

CVCD Zone 2

Ground Site Investigations:	0	Ground Sites Treated:	0	Aerial Photo Flights:	0
Sites Wet:	0	% of Treated Sites:	0%	Aerial Larvcide Flights:	0
% of Wet Sites:	0%	Acres Treated:	0	Aerial Acres Treated:	0
Landing Rates:	0	Acres Fogged:	0		
		Point Sites:	0	Fish Stocked (lbs)	0

CVCD Zone 3

Ground Site Investigations:	17	Ground Sites Treated:	4	Aerial Photo Flights:	0
Sites Wet:	7	% of Treated Sites:	24%	Aerial Larvcide Flights:	0
% of Wet Sites:	41%	Acres Treated:	3.10	Aerial Acres Treated:	0
Landing Rates:	4	Acres Fogged:	0		
		Point Sites:	0	Fish Stocked (lbs)	0

CVCD Zone 4

Ground Site Investigations:	0	Ground Sites Treated:	0	Aerial Photo Flights:	0
Sites Wet:	0	% of Treated Sites:	0%	Aerial Larvcide Flights:	0
% of Wet Sites:	0%	Acres Treated:	0	Aerial Acres Treated:	0
Landing Rates:	0	Acres Fogged:	0		
		Point Sites:	0	Fish Stocked (lbs)	0

CVCD Zone 5

Ground Site Investigations:	20	Ground Sites Treated:	5	Aerial Photo Flights:	0
Sites Wet:	13	% of Treated Sites:	25%	Aerial Larvcide Flights:	0
% of Wet Sites:	65%	Acres Treated:	6.21	Aerial Acres Treated:	0
Landing Rates:	1	Acres Fogged:	0		
		Point Sites:	1	Fish Stocked (lbs)	0

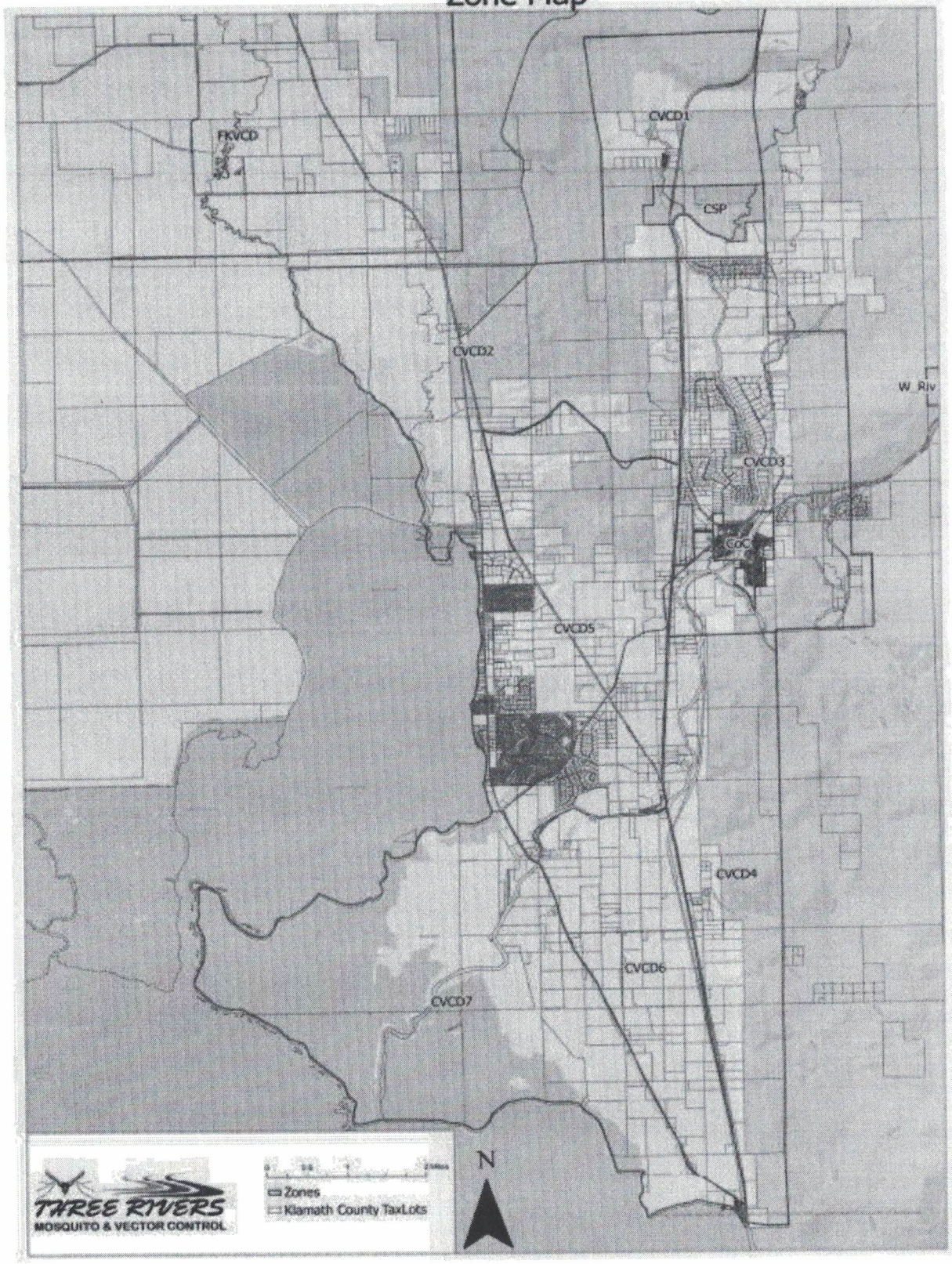
CVCD Zone 6

Ground Site Investigations:	47	Ground Sites Treated:	4	Aerial Photo Flights:	0
Sites Wet:	8	% of Treated Sites:	9%	Aerial Larvcide Flights:	0
% of Wet Sites:	17%	Acres Treated:	4.08	Aerial Acres Treated:	0
Landing Rates:	0	Acres Fogged:	0		
		Point Sites:	0	Fish Stocked (lbs)	0

CVCD Zone 7

Ground Site Investigations:	8	Ground Sites Treated:	0	Aerial Photo Flights:	0
Sites Wet:	2	% of Treated Sites:	0%	Aerial Larvcide Flights:	0
% of Wet Sites:	25%	Acres Treated:	0.00	Aerial Acres Treated:	0
Landing Rates:	1	Acres Fogged:	0		
		Point Sites:	0	Fish Stocked (lbs)	0

Chiloquin Vector Control District Zone Map



Adult Mosquito Control Results:

Aqua-Reslin® Treatment	
Total Number of Acres Sprayed*:	624.94
Total oz. of Adulticide Used:	752.94
at 0.83 oz/acre	

Essentria™ IC ³ Treatment	
Total Number of Acres Sprayed*:	0.00
Total oz. of Adulticide Used:	0.00
at 0.83 oz/acre	

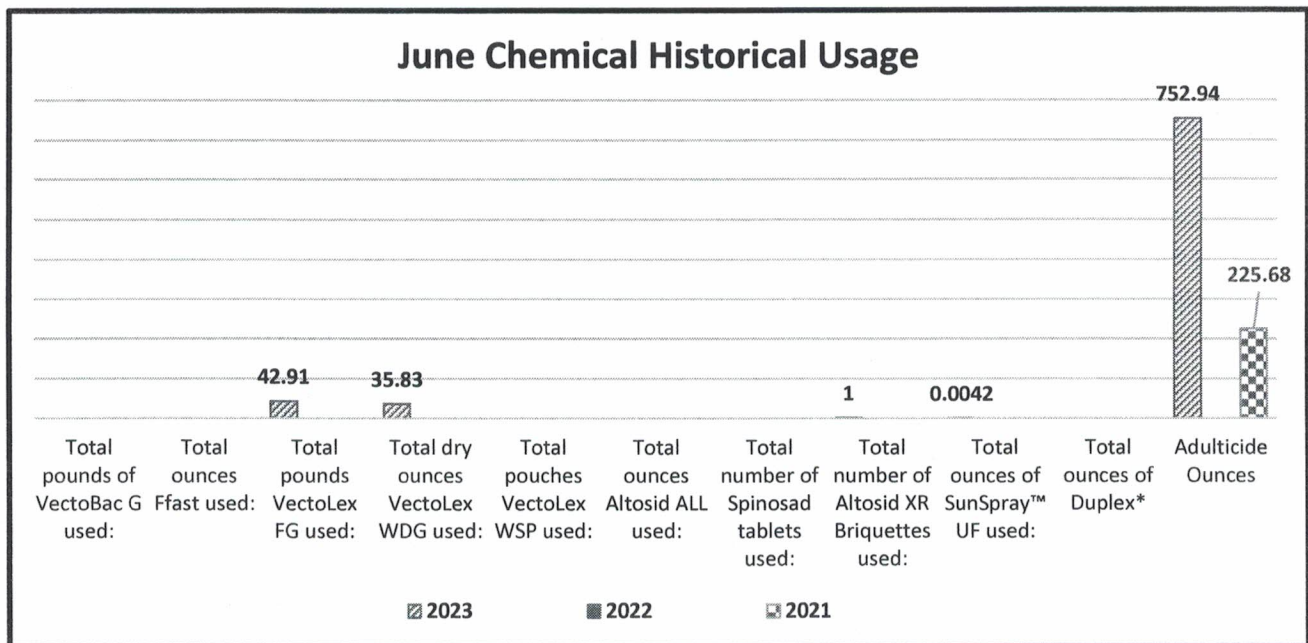
* Only includes ULV spray-on acreage (excludes shutoffs, turnarounds, etc.)

Chemical Usage

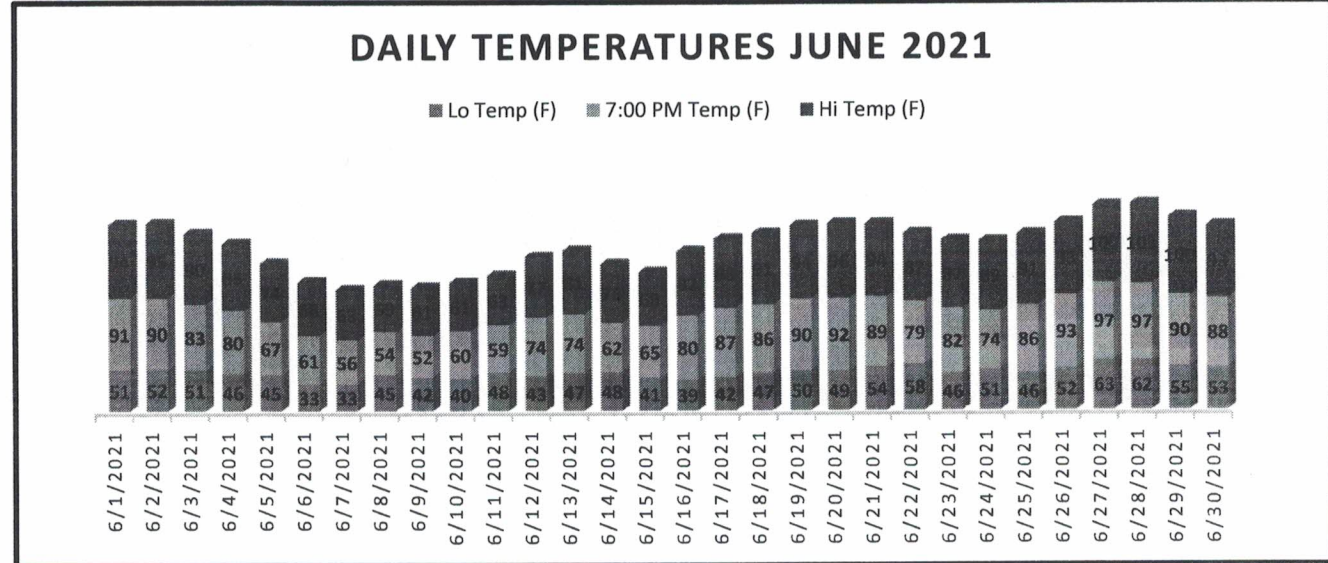
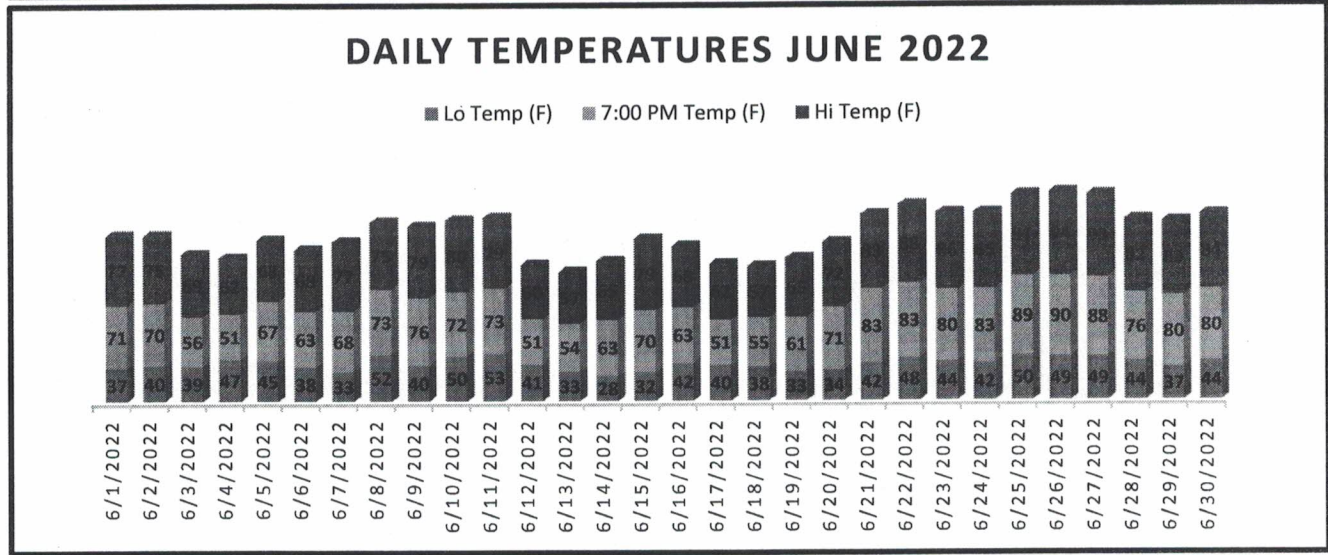
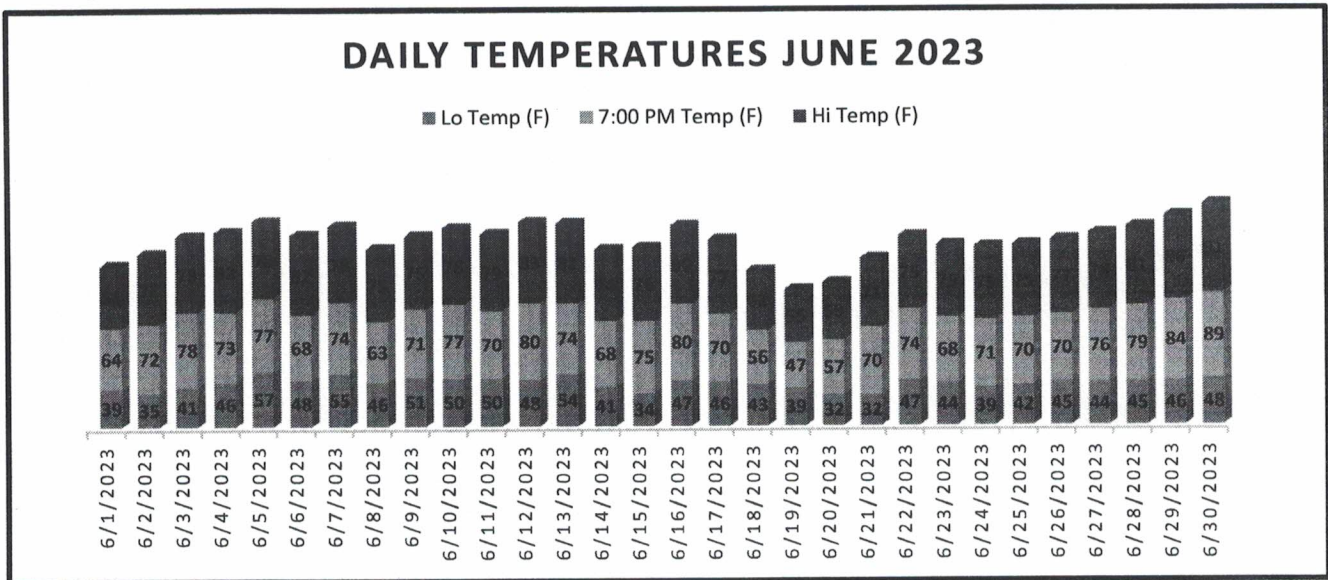
Total pounds of <i>VectoBac G</i> used:	0.00
Total ounces <i>Ffast</i> used:	0.00
Total pounds <i>VectoLex FG</i> used:	42.91
Total dry ounces <i>VectoLex WDG</i> used:	35.83
Total pouches <i>VectoLex WSP</i> used:	0
Total ounces <i>Altosid ALL</i> used:	0.00
Total number of <i>Spinosad</i> tablets used:	0
Total number of <i>Altosid XR</i> Briquettes used:	1
Total ounces of <i>SunSpray™</i> UF used:	0.0042
Total ounces of <i>Duplex*</i>	0.00

*Duplex = 1 part liquid *Methoprene* to 9 parts liquid Bti

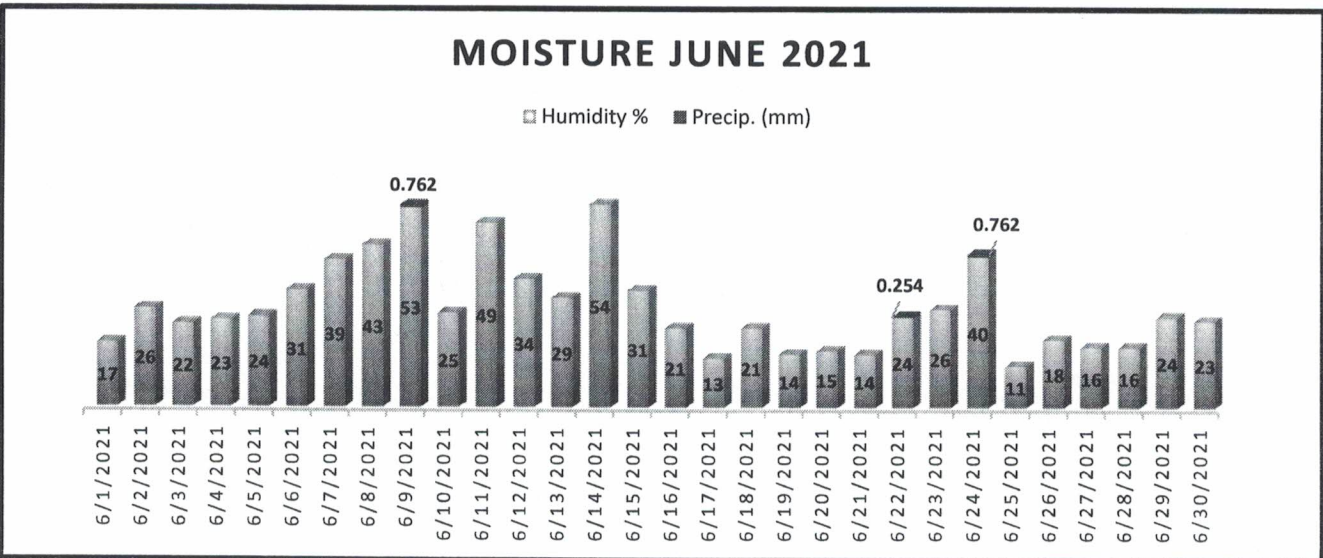
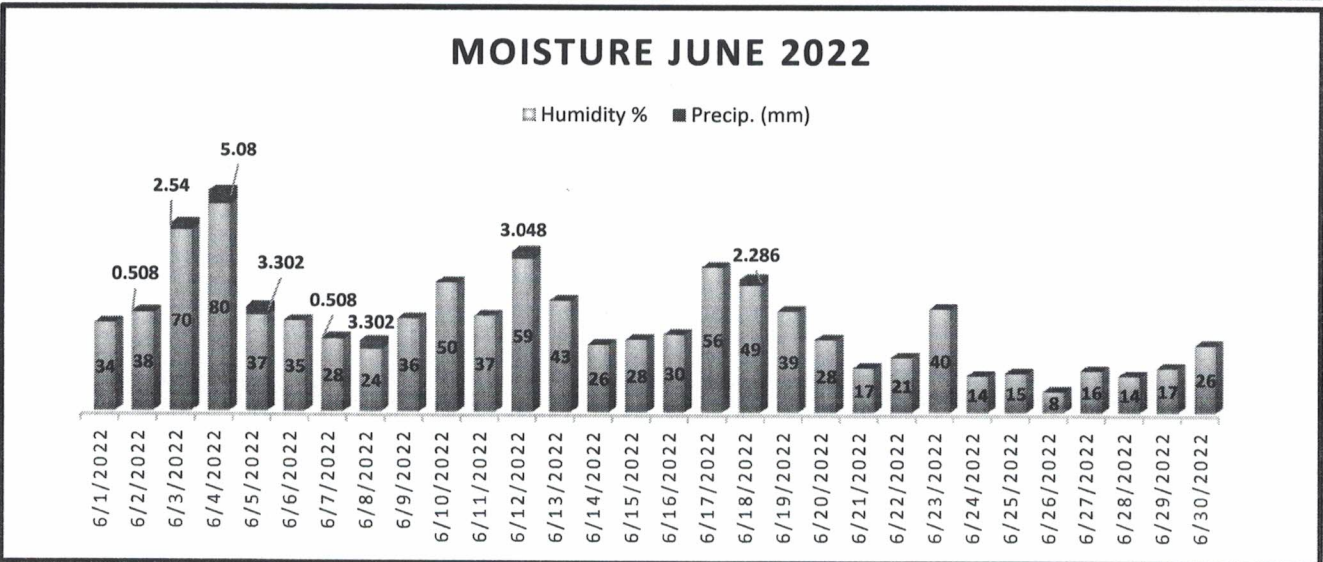
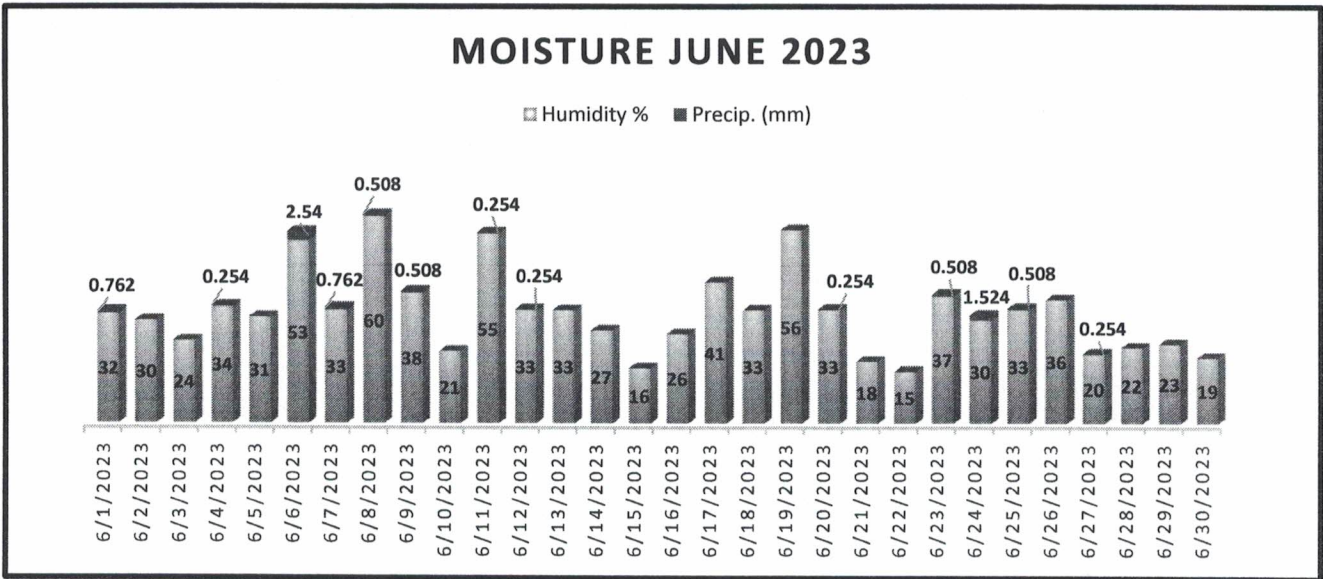
2021 - 2022 - 2023 Chemical Comparison Chart



Chiloquin Weather Graphs (Temperatures):



Chiloquin Weather Graphs (Humidity and Precipitation):



Chiloquin Weather Graphs (Wind):

